

Title (en)  
NANO COMPOSITE FOR THERMAL INSULATION

Title (de)  
NANOKOMPOSIT FÜR THERMISCHE ISOLIERZWECKE

Title (fr)  
NANOCOMPOSITE POUR ISOLATION THERMIQUE

Publication  
**EP 0981580 A1 20000301 (DE)**

Application  
**EP 98925602 A 19980513**

Priority  
• DE 19720269 A 19970514  
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Abstract (en)  
[origin: US6479156B1] The invention relates to a nanocomposite for thermal insulation especially for fireproofing purposes, which can be obtained by combining (A) at least 35 wt. % of nanoscaled, optionally surface-modified particles of an inorganic compound; (B) 10-60 wt. % of a compound with at least two functional groups which can react and/or interact with the surface groups of nanoscaled particles (A), (C) 1-40 wt. % of water and/or an organic solvent which has no functional groups or only one which is defined in (B), wherein the above-mentioned percentages relate to the sum of components (A), (B) and (C), and (D)=0-10 wt. % (based on the nanocomposite) of additives.

IPC 1-7  
**C08K 9/04; C09K 21/00**

IPC 8 full level  
**C03C 27/06** (2006.01); **B32B 17/10** (2006.01); **C03C 14/00** (2006.01); **C03C 27/12** (2006.01); **C04B 14/06** (2006.01); **C04B 30/00** (2006.01); **C08K 5/00** (2006.01); **C08K 9/04** (2006.01); **C09K 21/00** (2006.01)

CPC (source: EP KR US)  
**B32B 17/069** (2013.01 - EP KR US); **C03C 14/004** (2013.01 - EP KR US); **C03C 14/008** (2013.01 - EP KR US); **C04B 14/064** (2013.01 - EP KR US); **C04B 30/00** (2013.01 - EP KR US); **C09K 21/00** (2013.01 - EP KR US); **C03C 2214/04** (2013.01 - EP KR US); **C03C 2214/17** (2013.01 - EP KR US); **C03C 2214/32** (2013.01 - EP KR US); **C04B 2111/28** (2013.01 - EP KR US); **Y10S 428/921** (2013.01 - EP KR US); **Y10T 428/2993** (2015.01 - EP US)

C-Set (source: EP US)  
1. **C04B 30/00 + C04B 14/064**  
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Cited by  
US8932508B2; EP2084001B1

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AT BE CH DE ES FR GB IE IT LI LU NL SE

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**US 6479156 B1 20021112**; AT E221558 T1 20020815; AU 7765698 A 19981208; CN 100352853 C 20071205; CN 1255149 A 20000531; CZ 292469 B6 20030917; CZ 9903964 A3 20001213; DE 19720269 A1 19981119; DE 59805012 D1 20020905; EP 0981580 A1 20000301; EP 0981580 B1 20020731; ES 2180177 T3 20030201; JP 2001525869 A 20011211; JP 4000423 B2 20071031; KR 100508231 B1 20050817; KR 20010012217 A 20010215; WO 9851739 A1 19981119

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